



Elasto-King[®] Epoxy Resin

Description

Elasto-King is a solvent-free, fast-setting, low-viscosity, three-component epoxy resin. It is reinforced with specially selected loads to provide excellent mechanical properties.

Uses

Elasto-King modified polyurethane epoxy resin. Is a specially formulated epoxy resin for joining prefabricated elements such as floor hardener, precast concrete pieces, steel prefabricated segments. It is particularly suitable for sealing segments of precast concrete wind towers.

Packaging

Standard stock "KIT" consist of 1 gallon "A" + 1/2 gallon "B" + supplied aggregate to yield 0.525 cu. ft./"kit". Damaged or previously opened containers shall not be used. Bags of aggregate that have become wet at any time shall not be used. Material must be stored in a dry area between 60–95°F. Keep liquid components from freezing.

Advantages

1. Very good physical and chemical adherence to any cementitious substrate, whether wet or dry.
2. Chemical resistance: Unaffected by a wide range of acids, alkalis and industrial chemical products.
3. Easy to apply: Specially formulated for application by hand or with a trowel without a primer.
4. Fast early strength development.
5. Solvent-free: No emission of harmful vapours.
6. Excellent resistance to abrasion and impact.
7. Unaffected by freeze/thaw cycles.
8. Waterproof: The cured material provides long-lasting waterproof protection.
9. Thixotropic: No detachment from vertical or overhead surfaces.
10. Excellent adhesion to a wide range of substrates.
11. Withstands constant or variable temperatures from - 20°C to 80°C in dry atmospheres and up to 50°C in damp atmospheres.



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Properties

The following results were obtained at 20°C.

Specific density	1.70 kg/l(±0.05)
Pot life	135 to 175 mins.
Flexural Compressive Strength	65 MPa
Adhesion to Concrete	3.0 MPa
Shore D Hardness	84
Open adhesion Time	4 hours aprox.
Useful mix life	1 hour aprox.
Initial Hardness	24 hours
Mixed Colour	Light grey
Shore D Hardness	84
Chemical Resistance	Excellent resistance to water, petroleum products, vegetable oils, alkaline solutions and a large number of acids